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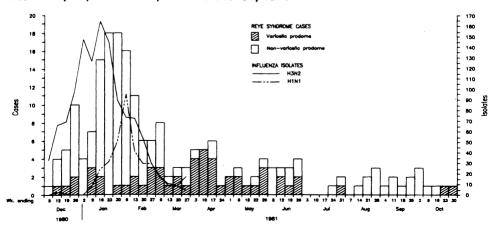
Current Trends

National Surveillance for Reye Syndrome, 1981: Update, Reye Syndrome and Salicylate Usage

For the period December 1, 1980-October 31, 1981,* CDC received written reports of 221 cases of Reye syndrome that met the CDC case definition (1). These cases were reported from 39 states and the District of Columbia. The sex, age, and racial distribution of patients was similar to that reported in previous years. Of patients for whom sex was known, 51% were female. Of patients of known age, 35% (73) were ≤4 years of age, 59% (124) were 5-14 years, and 6% (12) were ≥15 years. Among 211 patients of known race, 94% were white, 4% black, and 2% of Asian extraction. Of the patients with a reported antecedent illness, 60% (121) had respiratory symptoms, 30% (60) had varicella, and 10% (22) had diarrhea.

Seventy-seven percent of the patients with Reye syndrome were hospitalized in the period December 5-March 27, coincident with reports of increased influenza A(H3N2/H1N1) virus activity in the United States. Numbers of hospitalizations rose in direct proportion to increases in numbers of reports of influenza A(H3N2) virus activity (Figure 1). The number of Reye syndrome cases peaked approximately 1 week after the peak number of reported influenza A (H3N2) isolates, presumably reflecting the 5-7 day interval between antecedent illness and

FIGURE 1. Reye syndrome cases by week of hospitalization, and influenza isolates, by week of report, December 1, 1980-October 30, 1981



^{*}For the purposes of surveillance, Reye syndrome years extend from December 1 to November 30 of the following year. This report is based upon preliminary data.

Reye Syndrome - Continued

hospitalization of patients with Reye syndrome (2). The number of cases of Reye syndrome remained elevated during the peak period of H1N1 activity.

The incidence of Reye syndrome reported in 1980-1981 was similar to that reported in a previous year (1977-1978) of influenza A (H3N2/H1N1) activity and was approximately half that reported in years when influenza B or influenza A (H1N1) was prevalent (Table 1).

In 1981, of 208 reported cases for which the outcome was reported, there were 58 deaths, for a case fatality ratio (CFR) of 28%. This ratio is approximately equal to the average CFR for the preceding 3 years and one-third lower than that reported during the first 2 surveil-lance periods (1973-1974, 1976-1977) (Table 1). CFRs reported to CDC probably represent overestimates, because of a tendency for physicians and health departments to report severe illness or death more consistently than mild illness. Although the lower CFRs in recent years may have resulted in part from more complete reporting of mild cases, it is noteworthy that a larger percentage of all patients reported in recent years were admitted to the hospital in an early stage of the syndrome (suggesting earlier recognition). Furthermore, there has been a decrease in mortality rates among patients admitted in each stage of encephalopathy (suggesting improvements in therapy).

In addition to 3 previously reported case-control studies conducted in Arizona, Michigan and Ohio (3,4), a fourth study, reported to CDC by the Michigan Department of Public Health, demonstrated a relationship between Reye syndrome and the ingestion of salicylates during the antecedent illness. The goal of this study was to test the reproducibility of findings of the earlier study conducted by the Michigan Department of Public Health during the 1979-1980 influenza season. The recent study concentrated on all medications, including dosage and frequency of administration, taken during the illness preceding Reye syndrome. Patients and controls (1-3 controls for each patient) matched for year in school (\pm 1), race, febrile response (<100 F, 100 F-102.9 F, and \ge 103 F) and nature of prodromal illness (i.e., chickenpox or respiratory or gastrointestinal illness) were selected. Interviews were conducted as soon as possible after each case was reported (mean 5.5 days).

All 12 patients with Reye syndrome versus 12 of 29 (41.4%) controls reported using medications containing salicylates during the prodromal illness (p < 0.001). None of the 12 patients versus 16 of 29 (55.2%) controls received a product containing acetaminophen (p < 0.005). Analysis of factors that might confound the usage of salicylates, including mean

TABLE 1. Incidence of Reye syndrome, by year, United States, 1976-1981

Year				Death to cas	se ratio
	Major influenza activity	Number of cases	Incidence*	Number of deaths/cases†	Ratio (%)
1973-1974§	В	379	0.58	157/379	41
1976-1977	В	454	0.71	156/373	42
1977-1978	A (H3N2/H1N1)	237	0.37	66/225	29
1978-1979	A (H1N1)	389	0.62	113/349	32
1979-1980	В	517	0.88	114/516	22
1980-1981	A (H3N2/H1N1)	221¶	0.31	58/210	28

^{*}Cases/100,000 population < 18 years of age.

tWith known outcome.

[§]For the period December 15, 1973-June 30, 1974.

[¶]Preliminary count.

Reye Syndrome — Continued

duration of viral illness, mean age of parents, mean number of medications received during the viral illness, and mean peak temperature reported, revealed that patient and control groups were similar. The total amount of salicylates received by children with Reye syndrome during their prodromal illness ranged from 19.4 mg/kg body weight to 324 mg/kg (mean 121.6 mg/kg), and the maximum daily dosage received ranged from 10.8 to 78.6 mg/kg (mean 41.7 mg/kg).

Reported by W Hall, MD, Michigan Dept of Public Health; Viral Diseases Div, Center for Infectious Diseases, CDC.

Editorial Note: Previous statements on the possible association of medications and Reye syndrome have been issued by an NIH consensus conference (5) the FDA (6) and CDC (1). These earlier statements were made before the availability of the study results presented above.

All 4 studies reported from Arizona, Michigan (2 studies), and Ohio, showed a relationship between Reye syndrome and salicylates. As in all epidemiologic studies, a number of issues must be considered in interpreting results and reaching conclusions. To evaluate the data, CDC recently solicited assistance from 8 outside consultants* who were asked to review the 4 reported studies and assess the strength of the association between salicylate use and Reye syndrome.

Issues cited and discussed by CDC in its report on the Ohio and first Michigan studies included 1) recall bias, i.e., difficulties in obtaining comparable and accurate medication histories for patients following a significant event (Reye syndrome) when compared with controls with a relatively mild illness, and the difficulty of accurate recall of events several weeks later; 2) severity of illness, i.e., the possibility that patients with Reye syndrome had more severe antecedent illness and thus may have been predisposed to take more medications, including salicylates, than did matched controls; and 3) the comparability of viral infections in case and control groups; serologic studies were not done as part of these investigations.

Some additional areas of concern noted by the consultants, industry representatives and others included: 1) interviewer bias, i.e., the knowledge of the interviewer of the case-control status of the subject; 2) interview techniques that were not comparable, i.e., medication histories were more often verified (including checking of medication labels) for controls (whose parents were interviewed at home) than for patients (whose parents were usually interviewed in the hospital), which may have resulted in a tendency for parents of patients more often than for parents of controls to misclassify the generic drug used by their children; 3) possibile misclassification of Reye syndrome, i.e., since biopsies were not routinely performed, it was possible that some persons with mild illness might be included in the group of patients diagnosed as having Reye syndrome.

After reviewing the data from all 4 studies and discussing the various epidemiologic and analytic methods and results, the CDC consultants concluded that it was unlikely for the limitations of the studies, either singly or in combination, to explain totally the strength and consistency of the observed association between Reye syndrome and salicylates. The consultants felt there was "...sufficient evidence to support the cautionary statements on salicylate usage that had been published previously by the Centers for Disease Control (4) and the NIH Consensus Development Conference (5)." Furthermore, it was the consensus of the consultants

^{*}The consultants included: E. Russell Alexander, M.D., Tucson, AZ; David J. Lang, M.D., Baltimore, MD; Franz Rosa, M.D., Rockville, MD; Ralph Kauffman, M.D., Detroit, MI; Edward A. Mortimer, Jr., M.D., Cleveland, OH; Stuart Hartz, Sc.D., Boston, MA; Jacqueline Partin, M.S., Long Island, NY; and Brian Strom, M.D., M.P.H., Philadelphia, PA.

Reye Syndrome — Continued

that "...until the nature of the association between salicylates and Reye syndrome is clarified, the use of salicylates should be avoided, when possible, for children with varicella infections and during presumed influenza outbreaks." In addition, these consultants suggested that it would be prudent to reserve the use of all antipyretic agents for persons who have an illness of such a nature that the need to reduce elevated temperatures outweighs other considerations (7).

In summary, these studies indicate to CDC that salicylates may be a factor in the pathogenesis of Reye syndrome, although the observed epidemiologic association does not prove causality. The exact pathogenesis of this disease and the possible role of salicylates in its pathogenesis remain to be determined. Additional well-controlled studies are also needed. Until definitive information is available, CDC advises physicians and parents of the possible increased risk of Reye syndrome associated with the use of salicylates for children with chickenpox or influenza-like illness.

References

- 1. CDC. Follow-up on Reye syndrome—United States. MMWR 1980;30:321-2.
- 2. Corey L, Rubin RJ, Hattwick MA, Noble GR, Cassidy E. A national outbreak of Reye's syndrome; its epidemiologic relationship to influenza B. Am J Med 1976;61:615-25.
- Starko KM, Ray CG, Dominguez LB, Stromberg WL, Woodall DF. Reye's syndrome and salicylate use. Pediatrics 1980;66:859-64.
 (Continued on page 61)

TABLE I. Summary - cases of specified notifiable diseases, United States

				5th WEEK ENDI	NG	CUMULATIVE, FIRST 5 WEEKS					
	DISEASE		February 6 1982	February 7 1981	MEDIAN 1977-1981	February 6 1982	February 7 1981	MEDIAN 1977-198			
Aseptic menin	gitis		89	57	43	408	337	253			
Brucellosis			2	3	3	6	9	9			
Encephalitis:	Primary (arthropo	od-borne & unspec.)	21	9	11	63	67	53			
	Post-infectious		1	2	3	2	7	9			
Gonorrhea:	Civilian		18.506	20, 540	19,189	92.273	96.877	92,424			
	Military		682	719	719	2.764	2.987	2.762			
Hepatitis:	Type A		445	536	558	1.837	2.195	2,459			
	Type B		360	364	306	1.567	1.607	1.387			
	Non A, Non B		44	N	N	115	N	N			
	Unspecified		199	210	172	814	965	868			
Legionellosis			4	N	Ň	20	N	N			
Leprosy			4	4	4	6	14	14			
Malaria			7	33	ġ	51	123	47			
Measles (rube	ola)		14	42	255	50	168	871			
Meningococca	Il infections:	Total	58	117	62	271	420	264			
		Civilian	58	117	62	270	419	263			
		Military	-		-	1	i	1			
Mumps			65	101	408	353	469	1,424			
Pertussis			13	29	29	60	76	99			
Rubella (Gern			34	39	118	137	206	502			
Syphilis (Prin	nary & Secondary):	Civilian	708	645	517	3.214	2.914	2.295			
		Military	7	2	7	52	32	29			
Tuberculosis			481	485	510	2.046	2.004	2.054			
Tularemia			2	2	2	6	11	10			
Typhoid feve			7	14	7	40	43	27			
	, tick-borne (RMSI	=)	2	-	i	13	6	5			
Rabies, anim	al		59	95	55	364	469	245			

TABLE II. Notifiable diseases of low frequency, United States

	CUM. 1982		CUM. 1982
Anthrax	-	Poliomyelitis: Total	_
Botulism (Calif. 2)	10	Paralytic	-
Cholera	1	Psittacosis	6
Congenital rubella syndrome	-	Rabies, human	-
Diphtheria	-	Tetanus (Nev. 1, Calif. 1)	5
Leptospirosis (Ark. 1, Wash. 3)	1 7	Trichinosis (N.J. 8)	13
Plague	j 1	Typhus fever, flea-borne (endemic, murine) (Ala. 1)	1

TABLE III. Cases of specified notifiable diseases, United States, weeks ending February 6, 1982 and February 7, 1981 (5th week)

1982 1982 1982 1982 1982 1982 1983 1982				Febru	ıary 6, 1	982 and Fe	bruary 7, 1	981 (5t	h week)				
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Mins			-						_	-	-		
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MID. ATLANTIC		1	-										
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NY. CENTRAL 1			-				10,836	57	52			2	-
N.I.							4.125					2	
Pa. 2 - 2 - 2.501 2.717 U U U U ENCENTRAL 2 - 15 - 11.742 15.000 51 31 3 26	N.J.		-		-	1,809	2,650					-	-
Ohio 1 - 3,480 5,666 15 8 1 4 10 - 11 - 3,480 5,666 15 8 7 - 13 11 1,661 3,464 1,7 7 2 2 2 1,661 3,464 1,7 7 2 2 2 1,661 3,464 1,7 7 2 2 2	Pa.	2	-	2	-	2,501	2,717	U	U	U	U	-	-
Ind.		2	-			11,342	15,000			3			
		-	-									-	
Mich. 2 - 6 - 3,208 3,402 9 8 - 7		-				1.661	3.484			2			
W.N. CENTRAL 3 1 3 - 4,413 4,961 13 21 1 4 686 760 8 3 1 1	Mich.	2	-			3,208	3,402	9		-	7		-
Min.	Wis.	-	-	1	-	1,149	1,293	2	1	-	-	-	-
Now		3	1	3	-	4,413	4,961	13	21				-
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S. Dak.			1			2,050		-	13	_			
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S.ATLANTIC 18 2 7 1 24,545 22,62 26 95 11 10 1 10 1 - Del. 368 395 1	Nebr.		-	-	-	224	370			- "	, -		-
Dell.	Kans.	1	-	-	-	832	877	-	1	-	· · -	-	-
Md. 3 - 4 - 3,150 2,598 6 16 2 2 1 D.C 1,108 1,544 - 4	S. ATLANTIC	18					24,262	26	95		10		-
D.C.		-				368	395		14		-		-
Va. 4 2 2 - 1,873 2,299 4 14 5 3							1.544	-		-			-
W. Va. 2 242 314 3 5						1.873	2.299	4		5			-
S.C.	W. Va.		-	-		242	314	3	5	-	-		-
Ga.			-			4,050	4,063	5					-
Fig. 3 1 7,119 5,793 6 18 2 2 E.S. CENTRAL 15 - 4 - 7,345 8,035 24 31 2 2 Ky. 13 953 1,014 15 10 Tenn. 1 - 3 - 2,808 2,860 8 12 - 2 - 2 Ala 1 - 2,041 2,810 1 9 2 Miss. 1 1,543 1,351 Miss. 1 1,1543 1,351 W.S. CENTRAL 6 4 - 14,124 14,329 90 20 2 64 Ark 1,229 920 1 1 La 2,152 2,123 16 2 - 7 7 Okla. 1 - 3 - 1,462 1,385 9 3 1 7 7 Tex. 5 - 1 - 9,281 9,901 65 15 - 49 MOUNTAIN 6 - 5 1 3,383 3,359 64 16 6 6 17 Idaho 143 165 4 Idaho 143 165 4 Myo 109 97 24 - 3 N/wyo 109 97 24 - 3 N. Mex 191 1 983 831 7 2 2 5 N. Mex 191 1 983 831 7 2 2 5 N. Mex 191 1 983 831 7 2 2 5 N. Mex 135 166 1 2 PAriz 1 1 983 831 7 2 2 5 N. Mex 135 166 1 2 PARIZ 1 1 983 831 7 2 2 5 N. Mex 135 166 1 2 PARIZ 1 191 1,035 5 1 1 3 3 - Oreg 833 1,113 3 7 2 2 2 Caiff. 14 3 13 - 11,920 10,817 96 78 15 44 - 3 Alaska 2 833 1,113 3 7 2 2 2 Caiff. 14 3 13 - 11,920 10,817 96 78 15 44 - 3 Alaska 2 835 113 7 308 2 3 3 - 1 1 Guam U 247 305 1 2 Cuth Cuth			-					-		_	ı.		-
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TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending February 6, 1982 and February 7, 1981 (5th week)

			Febr	uary 6,	1982 an	nd Febr	uary 7,	1981 (5th wee	ek)			
REPORTING AREA	MAL	ARIA	MEA	ASLES (RUB	EOLA)		OCOCCAL TIONS otal)	MU	MPS	PERTUSSIS	RUBELLA		
	1982	CUM. 1982	1982	CUM. 1982	CUM. 1981	1982	CUM. 1982	1982	CUM. 1982	1982	1982	CUM. 1982	CUM. 1981
UNITED STATES	7	51	14	50	168	58	271	65	353	13	34	137	206
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TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending February 6, 1982 and February 7, 1981 (5th week)

		IS (Civilian)		982 and Feb 	TULA	TYPE	1010	ТҮРНИ	S FEVER	RABIES,
REPORTING AREA	CUM.	& Secondary) CUM.	1982	CUM.	REMIA CUM.	FEV 1982	CUM.	1982	borne) MSF) CUM.	Animal CUM.
	1982	1981	i	1982	1982	l	1982	L	1982	1982
UNITED STATES	3,214	2, 914	481	2.046	6	7	40	2	13	364
NEW ENGLAND Maine	59	79 1	6 1	53 4	-	2	4	-	-	3
N.H.	-	3	=	ž	_	-	-	-	-	-
Vt.	-	1	-	3	-	1	2	-	-	= -
Mass. R.I.	40 5	40 9	4 1	34 7	-	1	2	-	-	-
Conn.	14	25	=	3	-	-	-	-	-	-
MID. ATLANTIC	447	466	101	316	-	-	4	-	-	2
Upstate N.Y. N.Y. City	29 337	48 282	13 42	55 136	=	-	1 2	-	-	-
N.J.	38	52	12	39	-	-	1	-	-	-
Pa.	73	84	34	86	-	-	-	-	-	2
E.N. CENTRAL Ohio	104 23	191 35	88 13	340 71	=	-	3 1	-	-	32 2
Ind.	23	13	23	55	-	-	-	-	-	3
111.	20	99	32	127	-	-	-	-	-	15
Mich. Wis.	29 9	32 12	17 3	68 19	-	-	2	=	-	12
W.N. CENTRAL	61	50	8	38	4	-	2	1	1	127
Minn.	12	14	-	5	-	-	-	-	-	30
Iowa Mo.	1 38	3 28	7	3 17	3	=	1 1	1	ī	39 14
N. Dak.	2	-	1	2	-	-	-	-	-	15
S. Dak. Nebr.	-	2	-	2	-	-	-	-	-	7 14
Kans.	8	3	-	1 8	ī	=	=	=	-	8
S. ATLANTIC	902	722	80	407	-	-	3	ı	8	55
Del. Md.	2 55	1 55	-	1 58	-	-	ī	1	5	2
D.C.	59	68	3	14	-	_	-	-	-	-
Va.	60	60	1	28	=	-	1	-	-	29
W. Va. N.C.	3 75	55	1 19	9 64	Ξ	-	i -	-	3	3 -
S.C.	56	57	6	40	Ξ	-	-	-	-	. 4
Ga. Fla.	191 401	179 247	16 34	78 115	=	-	=	-	-	14 3
E.S. CENTRAL	248	222	48	190	-	1	6	-	3	27
Ky.	13	11	15	60	-	-	-	-	-	5
Tenn. Ala.	+9 80	85 71	16 7	5 8 62	-	ī	1 5	-	3	16 6
Miss.	106	55	10	10	-	-	_	-	-	ž
W.S. CENTRAL	905	692	35	153	1	1	2	-	-	56
Ark. La.	27 168	11	5 13	5 43	1 -	-	-	-	-	12 1
Okia.	16	18	2	28	-	1	2	-	-	16
Tex.	694	555	15	77	-	-	-	-	-	27
MOUNTAIN	81	67	16	63	1	-	2	-	-	6
Mont. Idaho	1	1	1	3 2	-	-	-	-	-	3
Wyo.	6	ī	1	1	-	-	Ξ	-	-	1
Colo.	25	15	3	. 8	-	-	-	-	-	-
N. Mex. Ariz.	16 14	15 17	6	12 26	-	_	2	-	-	1
Utah Nev.	2 17	17	5	11	1 -	-	-	-	-	-
PACIFIC	407	425	99	486	_	3	14	_	ı	56
Wash.	-	10	8	24	-	-	-	-	-	-
Oreg. Calif.	18 381	10 395	2 81	9	-	-	13	-	1	-
Alaska	381 1	395 1	- 01	427 8	-	2	-	-	-	52 4
Hawaii	7	9	8	18	-	1	1	-	-	-
Guam	_	-	U	-	-	U	_	U	_	-
P.R.	28	55	-	7	-	-	-	-	-	2
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rau. Irust Terr.					-	U U		U		

TABLE IV. Deaths in 121 U.S. cities,* week ending February 6, 1982 (5th week)

					re	brua	iry σ,	1962 (5th week	()						`
		ALL CA	USES, BY	AGE (YE	ARS)					ALL CA	USES, BY	AGE (YE	ARS)		
REPORTING AREA	ALL AGES	≥65	45-64	25-44	1-24	<1	P& I**	REPORTING AREA	ALL AGES	>65	45-64	25-44	1-24	<1	P&I** TOTAL
NEW ENGLAND	658	461	145	20	13	19	58	S. ATLANTIC	1,132	656	303	82	35	55	40
Boston, Mass.	194	128	42	9	6	9	32	Atlanta, Ga.	161	97 60	37	13	2	12	7
Bridgeport, Conn.	51 17	39 14	11	1	-	-	5	Baltimore, Md. Charlotte, N.C.	102 75	33	29 27	3 9	2	4	2
Cambridge, Mass. Fall River, Mass.	25	22	3	-	_	_	ĭ	Jacksonville, Fla.	100	64	24	á	6	3	ĩ
Hartford, Conn.	33	16	11	3	1	2	-	Miami, Fla.	103	66	23	9	2	3	1
Lowell, Mass.	20	15	4	-	1	-	-	Norfolk, Va.	46	29	13	ı	1	2	3 8
Lynn, Mass.	22 25	20 20	2	-	-	2	-	Richmond, Va.	86 49	50 26	29 15	2	3	-	3
New Bedford, Mass. New Haven, Conn.	60	39	11	3	2	5	4	Savannah, Ga. St. Petersburg, Fla.	92	74	12	2	î	3	3
Providence, R.I.	66	34	29	ĩ	ī	í	3	Tampa, Fla.	63	46	12	-	1	4	5
Somerville, Mass.	10	7	3	-	-	-	-	Washington, D.C.	217	93	66	35	10	12	4
Springfield, Mass.	39 36	30	7	1	1	-	3	Wilmington, Del.	38	18	16	1	1	2	1
Waterbury, Conn. Worcester, Mass.	60	31 46	12	1	ī	_	3								
Wordester, mass.	•			•	•		-	E.S. CENTRAL	837	497	201	62	33	44	44
								Birmingham, Ala.	178	106	44	17	4	7	3
MID. ATLANTIC	2,820	1,889	622	151	77	79	117	Chattanooga, Tenn.	55	36	13	3	-	3	5
Albany, N.Y. Allentown, Pa.	50 23	30 16	11	3	4	2	_	Knoxville, Tenn.	45 104	29 63	11 29	5 7	3	2	11
Buffalo, N.Y.	159	107	33	11	4	4	6	Louisville, Ky. Memphis, Tenn.	223	129	44	เร่	15	22	8
Camden, N.J.	46	25	16	i	ż	ż	1	Mobile, Ala.	59	38	ii	4	1 5	ī	6
Elizabeth, N.J.	29	19	6	2	2	-	1	Montgomery, Ala.	59	38	12	4	3	2	1
Erie, Pa.†	43 42	33 30	6 10	2	1	1	2	Nashville, Tenn.	114	58	37	9	3	7	10
Jersey City, N.J. N.Y. City, N.Y.	1,533	1,011	352	88	40	42	2 56								
Newark, N.J.	77	48	14	5	5	3	12	W.S. CENTRAL	1,345	787	304	104	57	93	42
Paterson, N.J.§	32	26	-	3	-	3	-	Austin, Tex.	60	45	8	4	2	1	4
Philadelphia, Pa.†	306	191	74	22	7	12	18	Baton Rouge, La.	58	40	10	5	-	3	2
Pittsburgh, Pa. † Reading, Pa.	74 29	49 25	19	2	2	2	4	Corpus Christi, Tex.	46	29	14	ı,	1 8	1	1
Rochester, N.Y.	127	90	28	3	3	3	4	Dallas, Tex.	194 79	116 39	49 19	16 3	5	13	2 7
Schenectady, N.Y.	44	34	-8	_	2	_	3	El Paso, Tex. Fort Worth, Tex.	101	57	23	8	4	• 9	3
Scranton, Pa.†	25	19	5	1	-	-	1	Houston, Tex.	216	95	49	23	16	33	4
Syracuse, N.Y. Trenton, N.J.	79	58	16	1	1	3	1	Little Rock, Ark.	75	47	1.7	3	3	5	4 /
Utica, N.Y.	44 19	33 13	9	1 3	-	1	2	New Orleans, La.	173 186	97 115	42 47	17	5 9	12	2 7
Yonkers, N.Y.	39	32	2	3	2	_	í	San Antonio, Tex. Shreveport, La.	66	47	ii	6	-	6 2	í
			-	-	_		- 1	Tulsa, Okla.	91	60	15	9	4	3	5
E.N. CENTRAL	2,247	1, 424	537	142	66	77	69								
Akron, Ohio Canton, Ohio	75 45	47 35	16 7	6	3	3	5	MOUNTAIN	665	410	142	49	39	25	33
Chicago, III.	543	333	139	47	13	11	9	Albuquerque, N. Mex. Colo. Springs, Colo.	66 30	20 19	11	18	16 1	1	1 1
Cincinnati, Ohio	138	83	35	4	10	6	11	Denver, Colo.	107	71	21	4	ì	10	3
Cleveland, Ohio	156	99	38	4	4	11	1	Las Vegas, Nev.	61	38	18	4	ī		3
Columbus, Ohio	165	94	55	8	3	5	9	Ogden, Utah	20	12	5	ı	1	1	1
Dayton, Ohio Detroit, Mich.	134 220	78 132	39 48	7 23	7	6 10	2	Phoenix, Ariz.	183	118	41	11	9	4	6
Evansville, Ind.	48	33	5	5	÷	ĭ	3	Pueblo, Colo. Salt Lake City, Utah	26 53	21 27	1 15	3 5	1	3	1
Fort Wayne, Ind.	45	32	9	1	2	ī	2	Tucson, Ariz.	119	84	21	á	6	5	17
Gary, Ind.	14	8	3	2	-	1	2								
Grand Rapids, Mich.	56 143	38 84	9	2	3	7	2		1 014		24.2				
Indianapolis, Ind. Madison, Wis.	58	39	36 11	12 2	3 5	í	5	PACIFIC Berkeley, Calif.	1, 814 24	1, 244	363 6	105	44	58	85 1
Milwaukee, Wis.	140	100	26	7	á	÷	3	Fresno, Calif.	70	43	19	4		4	4
Peoria, III.	24	17	5	-	1	1	1	Glendale, Calif.	34	27	7	_	-	-	i
Rockford, III.	46	34	. 8	2	-	2	-	Honolulu, Hawaii	63	42	9	3	6	3	11
South Bend, Ind. Toledo, Ohio	45 94	31 66	13	-	-	1	5	Long Beach, Calif.	110	80	23	5 32	. !	. 1	. 3
Youngstown, Ohio	58	41	23 12	4	ī	1	2	Los Angeles, Calif. Oakland, Calif.	452 70	304 39	91 20	32	11	14	17 1
				-	-	•	-	Pasadena, Calif.	58	42	10	3	í	2	
								Portland, Oreg.	125	79	21	6	5	14	-
W.N. CENTRAL	755	522	154	35	18	26	25	Sacramento, Calif.	77	56	17	1	2	1	6
Des Moines, Iowa Duluth, Minn.	56 34	34 28	14	7	-	ı	2	San Diego, Calif.	126	86	32	3 20	3	2	8
Kansas City, Kans.	42	26 26	10	1	1	1 2	2	San Francisco, Calif. San Jose, Calif.	188 193	124 146	41 28	11	2	1	5 19
Kansas City, Mo.	125	72	34	6	6	7	12	San Jose, Calif. Seattle, Wash.	125	82	25	11	2	5	19
Lincoln, Nebr.	45	30	15	-	-	-	ī	Spokane, Wash.	62	48	ĩí	-	ì	ź	6
Minneapolis, Minn.	95	67	20	5	-	3	-	Tacoma, Wash.	37	29	3	3	-	2	2
Omaha, Nebr. St. Louis, Mo.	98	72	19	ı	2	4	3								
St. Paul, Minn.	134 51	101 36	17 12	8 2	4	4	2	TOTAL	12,273	7. 890	2. 771	750	382	476	E12
Wichita, Kans.	75	56	10	2	3	4	ī	TOTAL	161613	11 070	-,.,,		302	410	513
.,				-	•	•	٠	1							

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is

reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
**Pneumonia and influenza

¹Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

^{††}Total includes unknown ages.

 $[\]S$ Data not available. Figures are estimates based on average of past 4 weeks.

Reye Syndrome — Continued

- 4. CDC. Reye syndrome Ohio, Michigan. MMWR 1980;29:532, 537-9.
- 5. Consensus Conference: Diagnosis and treatment of Reye's syndrome. JAMA 1981; 26:2441-4.
- 6. FDA Drug Bulletin, Vol. 6, No. 5, Nov-Dec 1976.
- 7. Summary of Reye Syndrome Consultants, October 13-14, 1981, CDC.

Epidemiologic Notes and Reports

A Technique for Rapid Epidemiologic Assessment — Nevada

In an effort to obtain information on perinatal health that could be useful in guiding local public health programs, a limited-sample birth survey was conducted in Clark County, Nevada, during 1981. By telephone interview, a public health nurse queried 200 women who had delivered babies 2-5 months previously. The first 100 interviews, conducted in May and June, involved mothers who had delivered in January and February, 1981; the remaining 100 interviews, in August and September, were with mothers who had delivered in June and July. Only mothers who delivered single, live-born infants were considered. The public health nurse searched local telephone directories for numbers to match the names and addresses of 1,271 mothers listed on birth records, found 425 numbers, and then attempted to telephone each mother. Of 201 mothers contacted, 1 declined to be interviewed.

The questionnaire used was a 1-page, standard-grid, modular form that could be administered in approximately 20 minutes. Questions sought information on such prenatal maternal activities as smoking and drinking habits and previous contraceptive use; the birth itself; and various postpartum maternal and infant events, such as illness and feeding choices.

Preliminary analysis of data obtained by the nurse indicated that 80 (40%) of the 200 mothers interviewed reported that they and/or their infants had had 1 or more infectious illnesses (as defined by the mother) during the first 30 days after delivery. Reported maternal illnesses were compatible with the following diagnoses: genital infections (11), respiratory infections (12), gastrointestinal illness (10), skin pustules/boils (8), mastitis (8), and cystitis (5). Illnesses reported for infants included skin pustules/boils (23), eye infections (32), respiratory infections (19), gastrointestinal illness (14), infection of the umbilical stump (5), and other (8). Although some of these conditions were self-limited, 27 mothers and 56 infants received physician care, usually including antibiotics.

Fifty-seven (28.5%) of the women reported smoking a total of approximately 234,000 cigarettes during their pregnancies, averaging 4,100 cigarettes per pregnancy or 15 per day. The neonates of these 57 smokers averaged 6.9 pounds, approximately 0.9 pounds less than the 7.8 pounds average birth weight of infants born to 143 mothers who denied smoking during pregnancy.

Although 102 (51%) of the women avoided all alcohol consumption during their pregnancy, 98 reported drinking 1 or more types of alcoholic beverages. The following beverages, in varied amounts, were consumed: beer (44 women), wine (72), and distilled spirits (38).

During the pregnancies under consideration, 188 (94%) women reported taking multivitamins; 87 (43.5%), Tylenol*; 55 (27.5%), iron; 51 (25.5%), Bendectin*; 30 (15%), calcium; 24 (12%), antihistamines; 17 (8.5%), aspirin; 16 (8%), penicillin; 12 (6%), other antibiotics; 8 (4%),sleep medication; and 9 (4.5%), other medications.

^{*}Inclusion of trade names is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

Rapid Epidemiologic Assessment - Continued

Thirty-eight (19%) of the mothers reported exposure to diagnostic X rays during pregnancy: dental (23), chest (8), abdominal (3), pelvic (3), wrist (2). Three had occupational exposure to X rays.

Fifty mothers (25%) reported use of ultrasound imaging for management of their pregnancies, and 11 (5.5%) mothers (6 over age 30) had amniocentesis. More than 90% of the infants had been screened for metabolic defects.

Almost one-fifth of the women in this survey had their infants delivered by Cesarean section. For the 162 (81%) women who delivered vaginally, the average hospital stay was 2.1 days, hospital costs were \$1,386, and the obstetrician fee was \$817. For the 38 (19%) women who had Cesarean sections, the average hospital stay was 4.9 days, hospital costs were \$3,767, and the obstetrician fee was \$1,200.

None of the 200 birth certificates reported any congenital malformations. However, 21 of the mothers reported the following defects for their infants: cutaneous birth marks (6), congenital dislocation of the hip (3), feet turned in (4), feet turned out (1), cleft palate and lip (1), umbilical hernias (1), other hernias (1), urethra too small (1), sunken chest (1), ptosis of eyelids (1), and skin tags (1).

Breast-feeding was begun by 136 (68%) of the mothers. When they were contacted 2-5 months after delivery, 38 (19%) were still breast-feeding.

Of the 200 women interviewed, 191 (95.5%) had used contraceptives at some time. Of the 9 who stated they had never used any contraceptive before their recent pregnancies, 2 of these had since used contraceptives, and 1 other (a diabetic who delivered an 11 pound 8 ounce infant) planned to be sterilized soon. Overall, 30.5% of the 200 mothers and 16.5% of the 200 fathers had either been sterilized since the recent delivery or were planning to be sterilized. Sixty-eight mothers (34%) reported having had a total of 89 prior abortions; 35 of these were stated to have been induced.

Reported by OH Ravenholt, MD, Director, Clark County Health District, Las Vegas, Nevada; Office of the Centers Director, CDC.

Editorial Note: The Nevada birth survey demonstrates that certain types of potentially useful public health information can be obtained in a cost- and personnel-effective manner by a limited-sample telephone survey. Limitations to such a survey include: 1) only persons with telephones who were home during the day were included in the sample; hence, persons selected and contacted were not fully representative of the entire population, and 2) the small numbers limit the kinds of analyses that can be done. This type of survey may, however, allow rapid epidemiologic assessment of local situations, trends, and attitudes useful in planning local health programs and applying limited resources to the most essential areas. Also, the response rate in this type of survey is ordinarily high. In the Clark County survey, only 1 of 201 women contacted declined to be interviewed. In addition, the single-sheet, standard-grid questionnaire is relatively inexpensive to produce and administer, and data can be easily extracted.

One important finding in this survey was that postpartum infections remain a frequently perceived problem among Clark County mothers and their infants and deserve more intensive surveillance than ordinarily provided. Since newborns and mothers usually are discharged from hospitals before incubation periods for most microorganisms have elapsed, special surveillance and feedback of information to hospitals is essential for effective control of nosocomial infections among these 2 groups (1).

Data on the exposure of pregnant women to alcohol, drugs, radiation, and smoking can be used to improve educational programs. Smoking, now the most prevalent preventable cause

Rapid Epidemiologic Assessment - Continued

of death in the United States, and a foremost cause of reduced birth weight (2), is still widespread in this study population sample despite all evidence that "the risk of spontaneous abortion, fetal death, and neonatal death increases directly with increasing levels of maternal smoking during pregnancy" (3).

References

- Ravenholt RT, Wright P, Mulhern N. Epidemiology and prevention of nursery-derived staphylococcal disease. N Engl J Med 1957;257:789-95.
- Ravenholt RT, Levinski MJ, Nellist DJ, Takenaga M. Effects of smoking upon reproduction. Am J Obstet Gynecol 1966;96:267-81.
- 3. Office on Smoking and Health. The health consequences of smoking for women. Rockville, Md.: US Public Health Service. Office of the Surgeon General, 1980. (US Dept of Health and Human Services).

Current Trends

Tuberculosis — United States 1981

A total of 27,412 cases of tuberculosis were reported to CDC in 1981. This figure, considered a provisional total until final corrected data for 1981 are received by the Tuberculosis Control Division, represents a decrease of 2.0% (571 cases) below the 1980 provisional total. The 1981 provisional case rate is 12.0/100,000 population, 3.2% lower than in 1980. However, the 1980 provisional data were based on a 53-week epidemiologic year, while the 1981 data cover a 52-week period (1). Based on these provisional numbers, the final tuberculosis case count for 1981 is expected to be comparable to that for 1980.

Before 1979 the number of tuberculosis cases decreased at a mean annual rate of 4.2%. In 1979 the decrease was 3.0%, and in 1980, the number of cases increased 0.3%. The provisional data for 1981 suggest that the secular trend that was previously downward, has leveled off.

Reported by Tuberculosis Control Div, Center for Prevention Svcs, CDC.

Reference

1. CDC. Tuberculosis - United States, 1980. MMWR 1981;30:55-6.

Influenza Update — United States

Influenza virus isolates from patients with sporadic cases of respiratory illness continue to be reported. An influenza type B isolate, the first from Michigan this season, was obtained in Ann Arbor from a college student, who had onset of influenza in the last week of January. Further isolations of influenza A(H1N1) and B in mid and late January have been reported from Houston: the seasonal totals from Houston now include 7 type A and 68 type B isolates. Influenza type B virus was also isolated on January 27 from a 15-year-old patient with respiratory illness in Phoenix, Arizona. This was the first isolate of the season reported from Phoenix.

Tucson is the only locality in the United States with current respiratory illness that is reporting influenza isolates. Influenza B has been isolated sporadically this season in the following states: Arkansas, California, Colorado, Hawaii, Michigan, Nevada, New Mexico, New York, Texas, and Wisconsin. Influenza A(H1N1) has been isolated sporadically in California, New Jersey, Texas, and Utah. Influenza B isolates tested at CDC resemble B/Singapore/222/79, and influenza A(H1N1) isolates resemble A/England/333/80.

Tuberculosis - Continued

Reported by A Monto, MD, University of Michigan, Ann Arbor, W Hall, MD, N Hayner, MD, State Epidemiologist, Michigan Dept of Public Health; K Starko, MD, Maricopa County, J Sam PhD, J Sacks, State Epidemiologist, Arizona Dept of Health Svcs; P Glezen, MD, Influenza Research Center, Houston, C Webb, Jr, MD, State Epidemiologist, Texas Dept of Health; Immunization Div, Center for Prevention Svcs, Influenza Br, Viral Diseases Div, Center for Infectious Diseases, CDC.

Influenza — Japan

Japanese health authorities have reported to the World Health Organization extensive influenza activity among school-age children since mid-January. Influenza B strains (B/Singapore/222/79-like) have been isolated in 30 prefectures. In northern parts of Japan, small outbreaks of influenza type A(H3N2) have been occurring. Sporadic cases of influenza A(H1N1) have also been reported.

Reported by WHO Collaborating Influenza Center, Center for Infectious Diseases, CDC.

Notice to Readers

Marketing of Human Diploid Cell Strain Rabies Vaccine

Recently completed negotiations between Wistar Institute, Wyeth Laboratories, and Merieux Institute have resulted in an agreement whereby Merieux Institute is now able to market its vaccine directly to the private medical sector. Because some states may wish to continue their existing distribution systems, Merieux Institute representatives will be contacting state health departments within the next 2 weeks to determine how each state wishes to have the Merieux human diploid cell strain (HDCS) vaccine distributed.

For those states that wish to relinquish the distribution of vaccine in favor of private-sector sales, the vaccine will be available for purchase through either the Merieux offices in Miami, Florida, or a distribution point nearer the purchaser.

Reported by Enteric and Neurotropic Viral Diseases Br, Center for Infectious Diseases, CDC.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE / CENTERS FOR DISEASE CONTROL
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